

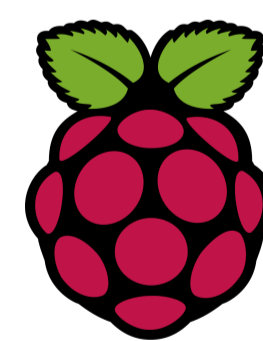
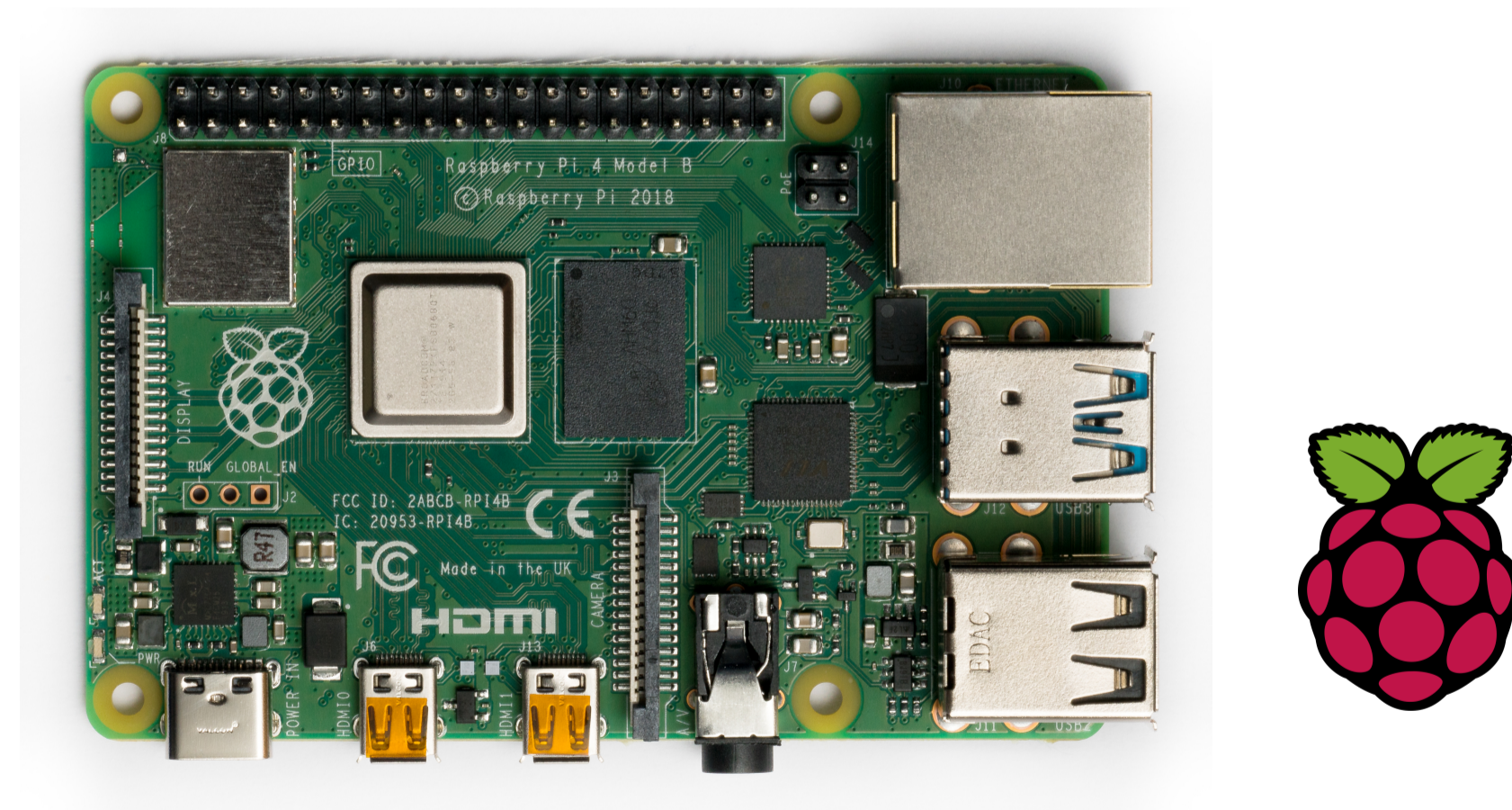
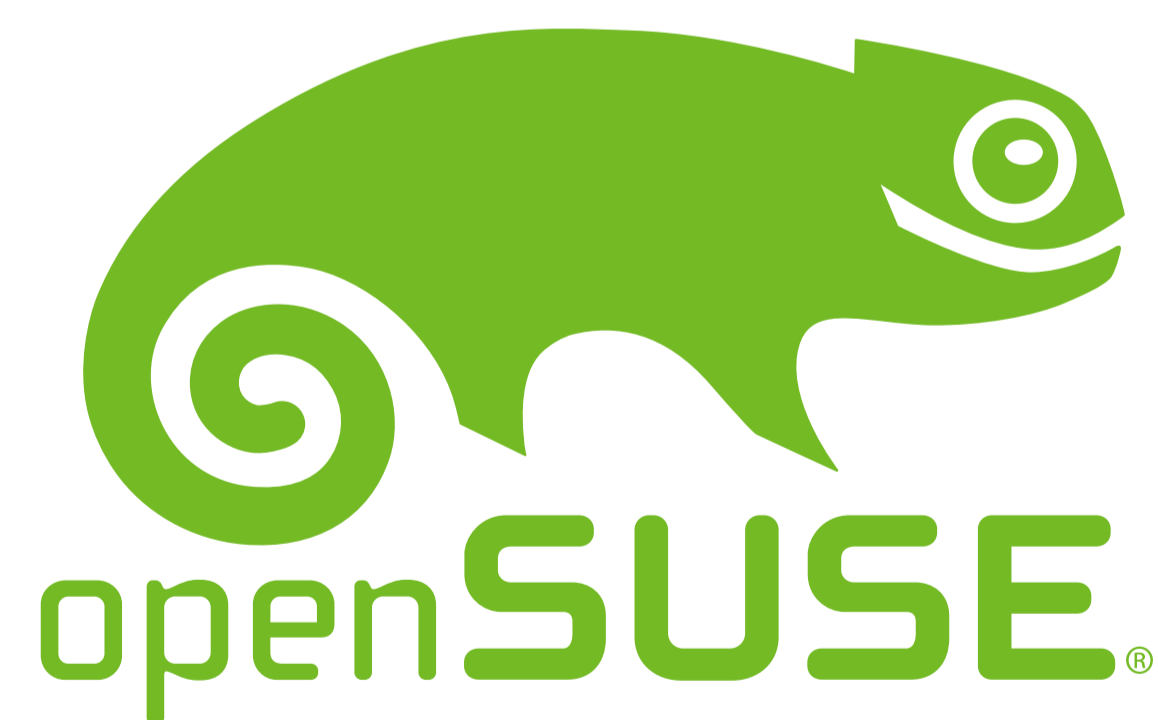
Raspberry Pi 4 running 64-bit openSUSE with kernel Live Patching

Matthias Brugger - SUSE

What is demonstrated

RPi4 running mainline Linux:

- **U-Boot v2019.10**
- **Kernel v5.3**
 - plus submitted **upstream patches**
 - kernel Live Patching for CVE-2018-13405



Hardware Information

Supported hardware (work in progress):
SD card, USB type C, EFI frame buffer

What was improved

Contributions to upstream:

- RPi4 support for U-Boot
- DMA support for devices which can only access 1 GB of RAM
- Live Patching for arm64

Next steps in upstreaming:

- Kernel
 - fix PCI/Ethernet upstream
 - reliable stack traces for Live Patching
- U-Boot:
 - one binary for RPi3/4
 - support Ethernet

Source code or detail technical information availability

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<https://en.opensuse.org/Portal:ARM>